

CLAIMS

1. A modular spring support mounting (24) for a sash window spring counterbalance arrangement (16) including a plurality of coiled ribbon springs (22), the modular spring mounting arrangement (24) is adapted to be fitted within a window jamb channel section (9) and to support and secure the springs (22) within the window jamb channel (9); the modular spring support mounting (24) comprising at least a first spring support mounting element (30b) and a second spring support mounting element (30a) each for supporting a respective coil spring (22);
- characterised in that the first spring support mounting element (30b) includes a pair of wedged shaped cross section projections (34) which extend normally from the spring support mounting element (30b) and are laterally spaced apart and inwardly oppositely directed, and the second spring support mounting element (30a) includes an interengagement fitting (36) which engages the pair of wedged shaped cross section projections (34) to in use securely interconnect the first and second spring support mounting elements (30b,30a) together.
2. A modular spring support mounting arrangement (24) as claimed in claim 1 in which the interengagement fitting comprises a dovetail cross section projection (36) which is engaged between the laterally spaced wedged shaped cross section projections (34).
3. A modular spring support mounting arrangement as claimed in claim 1 in which the interengagement fitting comprises a narrowed neck portion (38) corresponding to the lateral spacing (D) between the pair of laterally spaced apart projections (34), the narrowed neck portion (38) is engaged between the pair of laterally spaced apart projections (34) to in use securely interconnect

the first and second spring support mounting elements (30a,30b) together.

4. A modular spring support mounting arrangement (124) as
5 claimed in claim 1 in which the interengagement fitting comprises a pair of corresponding shoulder supports (160) upon which the respective wedged shaped cross section projections (134) abut and are engaged.
- 10 5. A modular spring support mounting arrangement (124) as claimed in claim 4 in which each of the shoulder supports (160) comprises a cradle corresponding to, and for, a respective wedged shaped cross section
15 projection (134), and in which each of the shoulder supports (160) further comprises a lip edge (166) which hooks over an upper apex edge (167) of the respective wedged shaped cross section projection (134) fitted to vertically secure the wedge shaped cross section
20 projections (134) vertically within the shoulder support (160).
- 25 6. A modular spring support mounting arrangement as claimed in any preceding claim in which the interengagement fitting and pair of wedged shaped cross section projections (34,134) are adapted to engage and securely interconnect the first and second spring support mounting elements (30a,30b) together by aligning the interengagement fitting and pair of wedged shaped cross section projections (34,134) and laterally sliding the
30 spring support mounting elements (30a,30b) relative to each other.
- 35 7. A modular spring support mounting arrangement (24) as claimed in any preceding claim in which the interengagement fitting (36) and pair of wedged shaped cross section projections (34) together define and provide a support surface (42) for at least one of the

coiled ribbon springs (22).

8. A modular spring support mounting (24) for a sash window spring counterbalance arrangement (16) including a plurality of coiled ribbon springs (22), the modular spring mounting arrangement (24) adapted to be fitted within a window jamb channel section (9) and to support and secure the springs (22) within the window jamb channel (9), the modular spring support mounting (24) comprising at least a first spring support mounting element (30b) and a second spring support mounting element (30a) each for supporting a respective coil spring (22);

characterised in that the first spring support mounting element (30ab includes a pair of laterally spaced apart projections (34) which extend normally from the spring support mounting element (30b), and the second spring support mounting element (30a) includes interengagement fitting comprising a narrowed neck portion (38) corresponding to the lateral spacing (D) between the pair of laterally spaced apart projections (34), the narrowed neck portion (38) is engaged between the pair laterally spaced apart projections (34) to in use securely interconnect the first and second spring support mounting elements (30b,30a) together.

9. A method of installing a modular spring support mounting (24) for a sash window spring counterbalance arrangement (16) within a window jamb channel section (9); the modular spring support mounting (24) comprising at least a first spring support mounting element (30b) and a second spring support mounting element (30a), the first and second spring support mounting elements (30b,30a) including a corresponding wedged shaped interlocking arrangement (34,36) to securely interlock the spring support mounting elements (30a,30b) together; the method comprising:

- a) inserting the first spring support mounting element (30b) into the window jamb channel (9),
b) laterally aligning the corresponding wedged shaped interlocking arrangement of the first and second spring support mounting elements (30b,30a), and
c) laterally sliding the second spring support mounting element (30a) relative to the first spring support mounting element (30b) to engage the wedged shaped interlocking arrangement (34,36) and securely interlock the spring support mounting elements (30b,30a) together within the window jamb channel (9).
10. A method of installing a modular spring support mounting arrangement (24) as claimed in claim 9 in which after inserting the first spring support mounting element (30b) into the window jamb channel (9) the first spring support mounting element (30b) is longitudinally slid within the window jamb channel (9) to align the corresponding wedged shaped interlocking arrangement (34,36) of the first and second spring support mounting elements (30b,30a).
11. A method of installing a modular spring support mounting arrangement (24) as claimed in claim 9 or 10 further comprising longitudinally sliding the first and second spring support mounting element (30b,30a) within the window jamb channel (9) to a required mounting position along the length of the window jamb channel (9).
12. A method of installing a modular spring support mounting arrangement (24) as claimed in any one of claims 9 to 11 in which the window jamb channel (9) includes an access opening (40) at a position along the length of the channel (9) through which the first and second spring support mounting elements (30b,30a) can be

laterally inserted into the window jamb channel (9).

- 5 13. A method of installing a modular spring support mounting arrangement (24) as claimed in any one of claims 9 to 12 in which the modular spring support mounting arrangement (24) comprises a modular spring support mounting arrangement (24) as claimed in any one of claims 1 to 8.